**Landcare Research Plant-SyNZ Fungus and Invertebrate Recording Form**

**Tī kōuka / Cabbage Tree – *Cordyline australis***

(Asparagaceae) (Angiosperm - monocotyledon: Asparagus family).

**Biostatus**: endemic.

Plant species code: 453

**Habitat being surveyed**

**Locality**

**Names of surveyors**

**Date of survey** **Plot number** [ ] **STANDARD LEVEL**

[tick if present ]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 14 F | [ ] | *Cordyline dark leaf spot sp. 'australis'* Dark leaf spot. Biostatus: unknown | Irregular rounded brown or black spots on upper side of leaves, variable in size, some spots with yellow areas underneath. Cause unknown. Present on live leaves. | l | u |
| 50 F | [ ] | *Cordyline oval leaf spots sp. 'australis' dead leaf* Dead leaf oval spot. Biostatus: unknown | Oval leaf spots on dead suspended leaves. Spot have a dark centre. Causal organism unknown. | l | u |
| 53 F | [ ] | *Phormium large white cap white gills sp. 'tenax'* (Basidiomycota: Agaricomycetes: Agricales) White cap with stalk. Biostatus: unknown | Fungus, white cap with white gills, on short stout stalk, usually in groups on dead leaves. Present in winter. Organism awaiting identification. | s | u |
| 59 F | [ ] | *Crepidotus sp.* (Basidiomycota: Agaricomycetes: Agaricales: Crepidotaceae) White/tan flat fungus. Biostatus: indigenous, non-endemic | Fugus, white or tan coloured with gills but no stalk, lives on dead stems and leaves often with little space underneath. Present in winter. | s | n |
| 79 PR | [ ] | *Batrachedra arenosella* (Lepidoptera: Batrachedridae) Flax scale eating caterpillar: Moth or Butterfly. Biostatus: endemic | Caterpillars feeds on scale insects, live under webbing covered with bits of scale insects and eat scale insects near webbing; make cocoons under webbing. Webbing present all year. | l | e |
| 103 PA | [ ] | *Meteorus pulchricornis* (Hymenoptera: Braconidae) Basket-cocoon parasitoid: Wasp. Biostatus: adventive | Wasp parasitoid of caterpillars. Distinctive oval cocoon is covered in netting and hangs on a thread. Present all year, except mid winter. | l | a |
| 114 F | [ ] | *Hypoderma cordylines* P.R. Johnst. (Ascomycota: Leotiomycetes: Rhytismatales: Rhytismataceae) Cabbage tree Hypoderma. Biostatus: endemic | Black ellipses with long split, on fallen dead leaves. Present in winter. | l | e |
| 118 F | [ ] | *Pseudopeziza colensoi* (Berk.) Massee (Ascomycota: Leotiomycetes: Helotiales: Dermateaceae) Tiny grey cap. Biostatus: endemic | Tiny grey caps from black pustules on recently dropped dead leaves. Present in winter. | l | e |
| 126 F | [ ] | *Cordyline short black streak sp. 'australis'* Short black streaks. Biostatus: unknown | Short black streaks on both sides of leaf. Cause unknown. | l | u |
| 127 F | [ ] | *Cordyline thin streaks sp. australis* Cabbage tree thin streak. Biostatus: unknown | Short narrow brown streaks on both sides of leaves, one to several veins wide. Cause unknown. | l | u |
| 131 F | [ ] | *Cordyline large leaf spot sp. 'australis'* Large leaf spot. Biostatus: unknown | Large leaf spots with dark outside and pale centre, on both sides of live and dead leaves. Cause unknown. | s | u |
| 163 PR | [ ] | *Stethorus sp.* (Coleoptera: Coccinellidae) Spidermite ladybird: Beetle. Biostatus: unknown | Small black adult ladybirds and small white or dark larvae in web-spinning mite colonies. Present all year. | l | u |
| 403 H | [ ] | *Anzaspis cordylinidis* (Hemiptera: Diaspididae), Cordyline scale: Sucking bug. Biostatus: endemic | Long, narrow, white scale insect, pale cap, on leaves, present all year. | l | e |
| 465 H | [ ] | *Poliaspis floccosa* (Hemiptera: Diaspididae), Flocculent flax scale: Sucking bug. Biostatus: endemic | Scale insects, males and sometimes females covered by flocculent white wax, pale (chlorotic) area on upper side of leaf, present all year. | s | e |
| 562 H | [ ] | *Epiphryne verriculata* (Lepidoptera: Geometridae), Cabbage tree moth: Moth or Butterfly. Biostatus: endemic | Green caterpillars living between young leaves, long channels chewed in leaves, holes in leaf and notches in leaf edge, present all year. | s | e |
| 569 H | [ ] | *Catamacta lotinana* (Lepidoptera: Tortricidae), Cabbage tree bell moth: Moth or Butterfly. Biostatus: endemic | Brown mines at base of leaves, later rolled tips of leaves, surface of leaf often chewed, present all year. | s | e |
| 649 H | [ ] | *Balanococcus cordylinidis* (Hemiptera: Pseudococcidae), Sucking bug. Biostatus: endemic | Mealybugs orange-pink, covered with powder wax, at base of young leaves, present all year. | l | e |
| 701 H | [ ] | *Paracoccus glaucus* (Hemiptera: Pseudococcidae), Long egg-sac mealybug: Sucking bug. Biostatus: endemic | Mealybug body oval, pale green or orange, under powdery white wax, short wax lateral filaments, longer posterior filaments; on underside of leaves. Present all year. | l | e |
| 1048 H | [ ] | *Saissetia coffeae* (Hemiptera: Coccidae), Hemispherical scale: Sucking bug. Biostatus: adventive | Brown, convex rounded scale on leaves, young adults have 'H' pattern, present all year. | l | a |
| 1700 H | [ ] | *Cordyline leaf base bowl gall sp. 'australis' of Martin & Beever 2003* (Diptera: Cecidomyiidae), Cabbage tree leaf gall: Fly. Biostatus: endemic | Raised callous with central depression for gall fly larvae, mainly at base of leaf, present all year. | l | e |
| 1888 H | [ ] | *Scolypopa australis* (Hemiptera: Ricaniidae), Passion vine hopper: Sucking bug. Biostatus: adventive | Plant hopper nymphs with fluffy tails and adults with black and clear wings; nymphs on young leaves and older nymphs and adults on young and old leaves in summer | s | a |
| 1977 H | [ ] | *Leucaspis cordylinidis* (Hemiptera: Diaspididae), Sucking bug. Biostatus: native | Long white scale, with curved sides, chlorotic (yellow) areas on leaves, present all year. | l | n |
| 2413 H | [ ] | *Tetranychus sp. 'cordyline' (Zhang et al. 2002)* (Acari: Prostigmata: Tetranychidae), Cabbage tree mite: Mite. Biostatus: endemic | Web-spinning mite on underside of leaves, dense groups of brown eggs or silvery egg shells, present all year. | s | e |
| 4835 H | [ ] | *Rhopalosiphum sp. 'x' (Valenzuela et al 2009)* (Hemiptera: Aphididae), Sucking bug. Biostatus: adventive | Aphids living in clusters of flowers and flower buds, may produce honeydew and cause sooty mould. | s | a |
| 4942 H | [ ] | *Erechthias capnitis* (Lepidoptera: Tineidae), Moth or Butterfly. Biostatus: adventive | Moth, caterpillar feeding in dead suspended leaves, makes much frass, cocoon amongst frass. | l | a |
| **You may also see** | | | |  |  |
| 67 F | [ ] | *Cordyline tiny tan fruiting bodies sp. australis dead leaf* Tiny tan caps. Biostatus: unknown | Tiny tan caps with short stalks; present on dead leaves on the ground. Present in winter. Organism awaiting identification. | m | u |
| 69 F | [ ] | *Cordyline black stalked fruitng bodies sp. australis dead leaf* Stalked black balls. Biostatus: unknown | Tiny black oval bodies on fine stalks; present on dead leaves on the ground. Present in winter. Organism awaiting identification. | m | u |
| 70 F | [ ] | *Cordyline white fluffy bowls sp. australis dead leaf* Tiny white fluffy bowls. Biostatus: unknown | Tiny white fluffy bowls with smooth interior; present on dead leaves on the ground. Present in winter. Organism awaiting identification. | m | u |
| 84 F | [ ] | *Mycena sp 'Mt Grey'* (Basidiomycota: Agaricomycetes: Agaricales: Mycenaceae) Mt Grey Mycena. Biostatus: endemic | Small white cap with tiny spines, gills and long thin stalk; present on dead leaves on the ground. Present in winter. | e | e |
| 85 F | [ ] | *Cordyline brown lines sp. australis* Cordyline brown lines. Biostatus: unknown | Thick brown lines on both sides of live and dead leaves, usually associated with elongated orange/yellow areas. Causal organism unknown. | e | u |
| 88 F | [ ] | *Lycogala epidendrum* (L.) Fr. (Amoebozoa: Mycetozoa: Liceida: Tubeiferaceae) Dead leaf orange bobbles. Biostatus: indigenous, non-endemic | Slime mould forming hard orange bobbles with varied rounded shapes and powdery interior; immature bobbles white. Present in winter. | s | n |
| 90 F | [ ] | *Cordyline brown flasks sp. 'australis' dead leaf* Stalked brown flasks. Biostatus: unknown | Tiny brown flask-shaped bodies on fine stalks, lid may be on or off; present on dead leaves on the ground. Present in winter. Organism awaiting identification. | m | u |
| 132 F | [ ] | *Codyline black spots sp. australis* Small black spots. Biostatus: unknown | Small black spots with sharp outline on upper side of live and dead leaves, may have pale centre. Cause unknown. | e | u |
| 262 F | [ ] | *Hirsutella sp.* (Ascomycota: Sordariomycetes: Hypocreales: Ophiocordycipitaceae) Branched insect fungus. Biostatus: unknown | Fungus: on dead adult or nymph passion vine hopper, Scolypopa australis. Fugus has long branched growths from insect. Present late summer, autumn and winter. | m | u |
| 388 H | [ ] | *Symeria pyriformis* (Hemiptera: Diaspididae) Pyriform scale: Sucking bug. Biostatus: endemic | This brown scale insect has been found on leaves of three species of Cordyline; adult female scales are pear-shaped and light to dark brown; present all year. | m | e |
| 464 H | [ ] | *Leucaspis gigas* (Hemiptera: Diaspididae) Sucking bug. Biostatus: endemic | This yellow scale insect has been found on leaves of two species of Cordyline; adult female scales are transparent gold; male scales have two straight lines under scale cover; present all year. | m | e |
| 602 H | [ ] | *Aphenochiton pubens* (Hemiptera: Coccidae), Translucent scale: Sucking bug. Biostatus: endemic | Oval transparent scale insect with wax plates, on underside of leaves. | m | e |
| 609 PA | [ ] | *Thripobius javae* (Hymenoptera: Eulophidae) Greenhouse thrips parasite: Wasp. Biostatus: adventive | Tiny wasp parasitoid. Naked black pupae in thrips colonies on underside of leaves. Present in summer and autumn. | e | a |
| 719 H | [ ] | *Pseudococcus longispinus* (Hemiptera: Pseudococcidae) Long-tailed mealybug: Sucking bug. Biostatus: adventive | Long-tailed mealybugs have been found on leaves of two species of Cordyline; the long lateral fringe and body length tail are distinctive, present all year. | m | a |
| 809 H | [ ] | *Phloeococcus cordylinidis* (Hemiptera: Eriococcidae), Sucking bug. Biostatus: endemic | Felted scale living in bark crevices on trunk, female without sac, but with a little white wax, present all year. | m | e |
| 997 H | [ ] | *Heliothrips haemorrhoidalis* (Thysanoptera: Thripidae), Greenhouse thrips: Thrips. Biostatus: adventive | Silvering and black faecal droplets on leaves, present in summer and autumn. Found on red cultivar. | e | a |
| 1032 H | [ ] | *Leucaspis morrisi* (Hemiptera: Diaspididae), Sucking bug. Biostatus: endemic | Translucent white scale insect, oyster-shell shaped with brown cap, dark body visible, on leaves, male scale narrower, present all year. | e | e |
| 1041 H | [ ] | *Pseudaulacaspis brimblecombei* (Hemiptera: Diaspididae), Waratah scale: Sucking bug. Biostatus: adventive | Scale insect on underside of leaves, white female oyster-shell shaped, light brown terminal cap, present all year. | e | a |
| 1047 H | [ ] | *Aspidiotus nerii* (Hemiptera: Diaspididae), Oleander scale: Sucking bug. Biostatus: adventive | Circular tan coloured scale insects with darker central cap. On underside of leaves. | e | a |
| 1966 H | [ ] | *Glaucias amyoti* (Hemiptera: Pentatomidae), Australasian green shield bug: Sucking bug. Biostatus: native | Shield bug, green and black nymphs and green adults amongst clusters of green fruit | m | n |
| 2128 H | [ ] | *Eriophyoid mites* (Acari: Prostigmata: ), Mite. Biostatus: unknown | Eriophyoid mites on underside of leaves, not associated with leaf damage. | m | u |
| 2147 H | [ ] | *Hemiberlesia lataniae* (Hemiptera: Diaspididae), Latania scale: Sucking bug. Biostatus: adventive | Scale insect, sub-circular, pale beige or tan with light brown cap, on leaves, present all year. | m | a |
| 2541 H | [ ] | *Pseudaulacaspis eugeniae* (Hemiptera: Diaspididae), White palm scale: Sucking bug. Biostatus: adventive | White scale, oystershell-shaped, brown cap, on underside of leaves, pale (chlorotic) areas on leaves, present all year. | e | a |
| 3536 H | [ ] | *Eriococcus sp.* (Hemiptera: Eriococcidae) felted scale: Sucking bug. Biostatus: unknown | Tawny felted scales on leaves; one of several species of felted scale that live on cabbage trees. Present all year. | m | u |
| 3874 H | [ ] | *Cordyline flower bud gall sp. 'pumilio' of Martin 2011* (Diptera: Cecidomyiidae), Cabbage tree flower bud gall: Fly. Biostatus: endemic | Swollen unopened flower buds, fly maggot may be inside, present during and just after flowering. | e | e |
| 4133 H | [ ] | *Cicadidae sp.* (Hemiptera: Cicadidae) Cicada: Sucking bug. Biostatus: endemic | Cicada egg scars in leaves, made by adult female. | m | e |

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**SUMMARY PAGE**

**Ti kouka / Cabbage Tree – *Cordyline australis***

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**Biostatus**: endemic.

Plant species code: 453

**Habitat being surveyed**

**Locality**

**Names of surveyors**

**Date of survey** **Plot number** [ ] **STANDARD LEVEL**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Number Found for this level of skill | | | | |
| Herbivores (H) | Parasites (PA) | Predators (PR) | Fungi and other microorganisms (F) | Total |
|  |  |  |  |  |
| Number of additional finds | | | | |
|  |  |  |  |  |
| Total Number found | | | | |
|  |  |  |  |  |
| Total number that could have been found for this level of skill | | | | |
| 13 | 1 | 2 | 9 | 25 |
| Total number that could have been found | | | | |
| 29 | 2 | 2 | 18 | 51 |

**Biostatus Results Table**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Number Found for this level of skill | | | | |
| e  Endemic | n = native  Indigenous non-endemic | a  Adventive | u  Unknown | Total |
|  |  |  |  |  |
| Number of additional finds | | | | |
|  |  |  |  |  |
| Total Number found | | | | |
|  |  |  |  |  |
| Total number that could have been found for this level of skill | | | | |
| 11 | 2 | 5 | 7 | 25 |
| Total number that could have been found | | | | |
| 19 | 4 | 12 | 16 | 51 |